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DESCRIPTIONS OF NEW SPECIES OF NORTH AMERICAN BEES.¹

BY E. T. CRESSON.

Trigona nigerrima.

♂.—Piceous-black, the pubescence black; sides of face broadly, and the cheeks, pale sericeous; clypeus broad, the apical middle foveate; tips of mandibles brown; scutellum broadly rounded behind; metathorax smooth and polished; wings fuliginous, apex subhyaline, stigma yellowish; abdomen shining. Length .25 inch.

Hab. Mexico (Sumichrast). One specimen.

Trigona nigra.

♂.—Shining black, the pubescence black; face and clypeus with a pale sericeous pile; flagellum dull testaceous beneath; wings fuscous, whitish at tips; pubescence of legs fuscous; abdomen narrow, polished, more or less brown at base. Length .20 inch.

Hab. Mexico (Sumichrast). Three specimens.

Trigona perilampoides.

♂.—Black, opaque; head and thorax densely punctured, the latter coarsely and confluent so above, clothed with a short pale glittering pubescence; face with a silvery-cinereous pile; labrum, tips of mandibles, and antennæ fulvo-testaceous; narrow lateral margin of mesothorax, apical margin of scutellum, and a round spot on each extreme basal corner, luteous; scutellum subtriangular, flat, projecting over the metathorax, the apex emarginate; tegulæ brown; wings smoky, paler at base; legs brown, paler at base and apex; abdomen short, broad, two basal segments shining, piceous, the remaining segments covered with a pale golden-sericeous pile. Length .18 inch.

Hab. Mexico (Sumichrast). Five specimens.

Trigona thoracica.

♂.—Fulvo-testaceous, opaque; vertex, flagellum above, mesothorax, spot on pleura, and base of second segment of abdomen more or less, fuscous or black; the pubescence on vertex and thorax above fuscous, elsewhere it is pale; wings yellowish sub-

¹ The types of the species described in this paper are to be found in the collection of the American Entomological Society.

hyaline, slightly dusky at tips; abdomen short, golden-sericeous. Length .22 inch.

Hab. Mexico (Sumichrast). Two specimens.

Tetrapedia abdominalis.

♀.—Robust, black, the abdomen ferruginous; sides of face, and cheeks with a whitish pubescence; tip of clypeus, and antennæ beneath brown; thorax broad, smooth and shining, lateral angles of prothorax prominent, subspinose; tegulæ piceous; wings fuscous, subhyaline at tips, stigma and nervures pale, the first recurrent nervure uniting with the second transverse cubital nervure; legs black, with the pubescence black, that on tips of posterior tibiæ exteriorly tinged with ferruginous, tibial spurs black; abdomen short, broad at base, shining, the apex fringed with fulvous, and the ventral segments with long white pubescence. Length .30 inch.

♂.—Narrow line on sides of face, most of clypeus; short transverse line above, labrum, mandibles except tips, line on scape beneath, line on each side of prothorax above, postscutellum, and last joint of tarsi, yellowish-white; scutellum with short dense black pubescence; wings paler than in ♀; legs brown, simple, the pubescence black; abdomen flavo-testaceous, shining, the apical segments fringed with white pubescence. Length .25 inch.

Hab. Mexico (Sumichrast). Two specimens. This species resembles *calcarata* Cress. in color, but has a shorter, broader, and more compact form, the tibial spurs are black, and the wings differently colored.

Bombus Ridingsii.

♀.—Black; vertex, thorax above and laterally, first abdominal segment and basal middle of second more or less, clothed with pale lemon-yellow pubescence; elsewhere the pubescence is black; sometimes the yellow on base of second segment extends nearly to the apex, and generally more or less divided posteriorly, sometimes forming two spots; clypeus smooth and polished, transversely indented near tip; wings stained with fuscous. Length .70 inch.

♂.—Like the female, but smaller. Length .50–.60 inch.

Hab. West Virginia. Numerous specimens collected by Mr. James Ridings. Allied to *separatus* Cress., which, however, has the pubescence of the head entirely black and that on basal middle

of second abdominal segment more or less tinged with brown, and never divided.

Bombus Morrisoni.

♀.—Black; vertex, thorax above, and first, second, and basal middle of third abdominal segments, clothed with a dense bright lemon-yellow pubescence; elsewhere the pubescence is black; wings fuliginous, violaceous, much darker at base; clypeus smooth, shining, finely and sparsely punctured, depressed. Length .80-.90 inch.

♂.—Like the ♀, but smaller, with the basal half of third segment sometimes yellow. Length .60-.75 inch.

♂.—Face narrow, eyes unusually large; face, vertex, occiput, thorax above, posterior femora, and the first, second, third and basal middle of fourth segments of abdomen, bright lemon-yellow. Length .65 inch.

Hab. Colorado (Mr. H. K. Morrison). Numerous specimens. This is a very handsome species, the yellow being of a bright and beautiful shade.

Bombus appositus.

♀.—Black; face, vertex, occiput, anterior half of mesothorax, continued for a short distance down on each side, clothed with a very pale ochraceous, sometimes nearly white, pubescence; on the scutellum and abdomen above the pubescence is yellow, that on abdomen generally having a browish shade in certain lights; elsewhere the pubescence is black, except on venter, where the segments are fringed at apex with whitish hair; disk of mesothorax smooth and polished, the pubescence on each side black; clypeus smooth and polished, transversely depressed at tip; the space between the eyes and base of mandibles greater than usual; wings stained with fuscous, darker at base. Length .80-.85 inch.

♂.—Like the female, but smaller. Length .65 inch.

♂.—The pubescence on cheeks, sides of thorax and beneath, and on legs, whitish, and that on abdomen above paler than in the female. Length .70 inch.

Hab. Colorado, New Mexico, Utah, Nevada. Eight specimens. This is closely allied to *borealis* Kirby, but is readily distinguished by the pubescence of the head and thorax anteriorly being whitish, and by that on abdomen above being entirely yellow.

Bombus gelidus.

♀.—Black, the pubescence long and loose; that on occiput, a slight admixture on face and vertex, anterior margin of mesothorax, sides of thorax, scutellum, and first and fourth segments of abdomen, pale yellow or ochraceous; that on second and third segments mostly fulvo-ferruginous, mixed with black on middle and sides; elsewhere the pubescence is black; clypeus sparsely punctured, labrum with fulvous hair; wings stained with fuscous, darker at base and at tip of marginal cell; tarsi pale sericeous, fulvous beneath. Length .70 inch.

Hab. Aleutian Islands (Henry Edwards). One specimen. The pubescence of the abdomen is longer than usual, and the colors are not very decided.

Bombus Edwardsii.

♀.—Black; vertex, thorax above except disk, sides of thorax, first segment of abdomen, basal middle of second, apex of fourth, and sides of fifth clothed with a lemon-yellow pubescence; elsewhere it is black except a slight admixture of yellow on the face above antennæ; disk of mesothorax smooth and polished, with black pubescence on each side; wings stained with fuscous, darker at base. Length .70–.75 inch.

♂.—Black; middle of face, vertex more or less, mesothorax anteriorly, scutellum, sides of thorax, femora beneath, first and fourth segments of abdomen and venter, clothed with pale yellow pubescence; elsewhere it is black; wings subhyaline, dusky on apical margin; tarsi more or less fulvous. Length .45 inch.

♂.—Short, robust, black; head, thorax except a black band between the wings, base of legs, first abdominal segment, basal middle of second, and the fourth and fifth and venter, clothed with long lemon-yellow pubescence; elsewhere it is black. Length .40–.45 inch.

Hab. California, Vancouver's Island (H. Edwards); Colorado Morrison). Twelve specimens.

Bombus Crotchii.

♀.—Black; occiput, anterior part of thorax above as far back as the tegulæ, and the second segment of abdomen except basal middle, clothed with a pale lemon-yellow pubescence, that on the two apical segments fulvo-ferruginous; elsewhere it is black; wings fuliginous, violaceous, black at base. Length .90 inch.

Hab. California (Crotch). Three specimens. A handsome species.

Bombus Couperi.

♀.—Short, robust, black; vertex, thorax anteriorly, laterally and beneath, scutellum and two basal segments of abdomen, clothed with an ochreous-yellow pubescence, that on the two apical segments fulvous yellow; elsewhere it is black; wings stained with fuscous. Length .65 inch.

Hab. Canada (Mr. Wm. Couper). Two specimens. The black band between the wings is unusually broad.

Bombus Putnami.

♀.—Black; thorax, except a black band between the wings, two basal segments of abdomen above, lateral apical margin of the third, and the venter, clothed with ochreous-yellow pubescence, that on the fifth segment and apex of fourth fulvous-yellow; elsewhere it is black, except a slight admixture of yellow on the face, vertex and femora beneath; face long, clypeus smooth and polished, the space between eyes and base of mandibles greater than usual; wings stained with fuscous. Length .75 inch.

Hab. Colorado—Alpine. One specimen collected by my friend Mr. J. Duncan Putnam in the month of July.

Bombus oregonensis.

♂.—Black, clothed with a long dense pale lemon-yellow pubescence, that on disk of mesothorax and scutellum, and on segments 3–5 of abdomen above, more or less black, and that on the two apical segments fulvous-yellow; wings hyaline, slightly dusky on apical margin. Length .55 inch.

Hab. Oregon (H. Edwards). One specimen.

Bombus bifarius.

♀.—Black; face, vertex, occiput, a broad band on thorax anteriorly extending a short distance down on each side, scutellum except middle, base of femora beneath, sides of basal segment of abdomen, fourth entirely, apical margin of the fifth, and the venter clothed with pale lemon-yellow pubescence, that on the second segment, except basal middle, and the third entirely, of a beautiful orange-fulvous; elsewhere the pubescence is black, except on posterior tibiæ and tarsi where it is fulvous; wings pale fuliginous on apical margin. Length .60–.70 inch.

♂.—Like the female, but much smaller, and with the yellow pubescence often much paler. Length .40-.45 inch.

Hab. Colorado, Vancouver's, British America. This is closely allied to *ternarius*, Say, but may be distinguished from that species by the broader black band between the wings, by the yellow on scutellum being divided into two spots, by the black pubescence on basal middle of second abdominal segment, by the fifth segment being fringed at apex with yellow hair, and by the pubescence on posterior tibiae being fulvous.

Bombus improbus.

♂.—Black, clothed with a short dense lemon-yellow pubescence, that on disk of mesothorax more or less black, but not extending laterally to the wings; face very narrow, the eyes being unusually large; wings stained with yellowish fuscous; legs clothed with black pubescence, that on femora more or less yellow, basal joint of posterior tarsi fringed behind with pale hair; abdomen with the fourth and fifth segments black, more or less fringed at apex with yellow, apical segments with fulvous-yellow pubescence. Length .60-.70 inch.

Hab. Colorado (Morrison). Two specimens. This has the same form as the ♂ of *pennsylvanicus* De Geer.

Bombus mixtus.

♀.—Black; head and thorax clothed with pale yellow pubescence, intermixed with black on face, vertex and thorax above; between the wings a broad band of black pubescence slightly intermixed with yellow on the sides; wings subhyaline, dusky on apical margin; legs clothed with black pubescence, that on femora beneath yellowish, and that on posterior tibiae intermixed with fulvous; abdomen with the first, second, and apical segments clothed with pale yellow pubescence, that on sides of second and base of third black, that on apex of third, the fourth and fifth fulvous, shading into yellow laterally, and that on venter yellowish. Length .55 inch.

♂.—Like the female, but smaller. Length .40 inch.

Hab. Colorado (Morrison). Three specimens. The black band between the wings is not distinctly defined, the yellow pubescence on anterior part of mesothorax being considerably intermixed with black.

Bombus juxtus.

♀.—Black; head, thorax, and two basal segments of abdomen clothed with a dense lemon-yellow pubescence, that on sides of vertex mixed with black; between the wings a distinct well-defined band of black pubescence; wings fuliginous on apical margin; legs with black pubescence, that on femora beneath yellow, and that on tibiæ at tips more or less fulvous, tarsi fulvo-sericeous; third and fourth segments of abdomen clothed with dense orange fulvous pubescence, yellow on extreme sides and on venter; two apical segments black. Length .60 inch.

Hab. Colorado (Morrison). Four specimens. This is allied to *flavifrons* Cress., but readily distinguished by the black band between the wings being well-defined, and by the yellow pubescence on mesothorax anteriorly and on scutellum not being intermixed with black as it is in *flavifrons*.

Bombus vancouverensis.

♂.—Black; head, thorax, and legs clothed with lemon-yellow pubescence, slightly mixed with black on sides of face and vertex; between the wings a tolerably well-defined band of black pubescence; wings hyaline, faintly dusky on apical margin; tarsi pale brown; abdomen with the first, basal middle of second and fourth segments and venter with yellow pubescence, that on sides of second and the third segments fulvous, and that on apical segments black, sometimes intermixed with yellow on apical margin and sides; occasionally there is a patch of black pubescence on sides of second segment. Length .45–.50 inch.

Hab. Vancouver's Island (H. Edwards). Ten specimens.

Bombus mexicanus.

♀.—Black, clothed with jet black pubescence; wings uniformly dark fuscous, with a violaceous reflection; posterior tibiæ and tips of tarsi brown, basal joint of the later fulvo-fuscous within; third segment of abdomen clothed with a yellow pubescence. Length .90 inch.

♂.—Like the female, but smaller. Length .65 inch.

Hab. Mexico (Sumichrast). Twelve specimens. A handsome species.

Anthophora capistrata.

♂.—Black; head, thorax, and basal segment of abdomen clothed with dense ochraceous pubescence, that on sides of face, vertex,

and mesothorax slightly mixed with black, that on cheeks and thorax beneath pale ochraceous; clypeus (except a broad transverse black band at base, narrowed laterally, and narrow apical margin), a transverse line above clypeus, sides of face extending narrowly half way up the orbits, labrum except a black spot on each side at base, spot on base of mandibles, and scape beneath, white; wings faintly dusky on apical margin; legs clothed with pale ochraceous pubescence, that on basal joint of posterior tarsi within black, tips of tarsi pale fulvous, intermediate tarsi slender, simple, basal joint of posterior pair robust, simple; abdomen black, with a slight bluish reflection, apical margin of segments 2-6 dull whitish, with a rather narrow even band of appressed whitish pubescence, apical segment bilobate at tip; extreme sides of venter with long whitish pubescence. Length .50 inch.

Hab. Texas (Belfrage). Two specimens. In this and all the following species described under this genus, the second submarginal cell of anterior wings is, unless otherwise mentioned, subtriangular and receives the first recurrent nervure at or about the middle.

Anthophora urbana.

♀.—Black; clothed with a whitish pubescence, that on vertex and thorax above tinged with ochraceous and mixed with black; clypeus confluent punctured and depressed at tip; wings hyaline, faintly dusky on apical margin; legs with white pubescence long on the femora, tip of basal joint of posterior tarsi with a tuft of black hair, the pubescence on the inside fuscous; first segment of abdomen with pale ochraceous pubescence, apical margin of segments 2-4 dull whitish, each with a band of appressed white pubescence, apical segment with black pubescence, fringed on each side with white hair. Length .45-.50 inch.

♂.—Sides of face, clypeus, line above, labrum, base of mandibles, and scape beneath white; tarsi slender and simple, the pubescence on basal joint within yellowish, tips of tarsi pale fulvous; the pubescence on vertex and thorax not mixed with black as in the ♀. Length .40-.45 inch.

Hab. Colorado, Utah, California. Twelve specimens.

Anthophora Krugii.

♀.—Black; head clothed with a whitish pubescence, slightly mixed with black on the vertex; thorax clothed with short black

pubescence, that on scutellum and metathorax rufo-ferruginous; wings slightly smoky, subiridescent; legs black, clothed with black pubescence, long on femora and white on coxæ and trochanters, four anterior tibiæ above pale, a small silvery white spot on tip of posterior femora above; abdomen with a slight bluish iridescence, basal segment clothed with a fulvous pubescence, apical margin of segments 1-4 narrowly yellowish-white, extreme sides of the segments with a patch of white pubescence, that on apical segment black; ventral segments fringed with white hair. Length .45 inch.

♂.—Clypeus, line above, sides of face, labrum except two spots at base, scape beneath, and narrow apical margin of abdominal segments 1-5 white; legs rufo-piceous, with short black pubescence, that on coxæ, and tips of four anterior tibiæ white; otherwise as in ♀. Length .45 inch.

Hab. Porto Rico (Mr. Leopold Krug). Two specimens. This is closely allied to *tricolor* Fab.

Anthophora affabilis.

♀.—Black; head, thorax, legs, and basal segment of abdomen clothed with a dense cinereous pubescence, that on vertex tinged with ochraceous and that on thorax above slightly so; wings faintly dusky; tibiæ and basal joint of the tarsi within clothed with black pubescence, that on the latter above black, more or less mixed with white at base; abdomen smooth and shining, with a slight bluish iridescence, apical margin of second and third segments narrowly fringed with white pubescence, fourth and fifth segments with sparse long white hair, more dense on apex of fifth segment which has a patch of black pubescence on apical middle, ventral segments fringed with long white pubescence. Length .60-.65 inch.

♂.—Closely resembles the ♀; sides of face, clypeus, line above, labrum except two black dots at base, and scape beneath, yellowish-white; intermediate tarsi long and slender, terminal joint fringed laterally with black hair; segments 2-6 fringed at apex with white pubescence, broadly so on 5 and 6; otherwise as in ♀. Length .60 inch.

Hab. Texas (Belfrage). Three specimens.

Anthophora simillima.

♂.—Black; head, thorax, legs, and base of abdomen clothed with a long whitish cinereous pubescence, that on vertex and

thorax above more or less mixed with black; a sublanceolate mark on each side of the face, clypeus except two spots at base, labrum and scape beneath pale yellow or yellowish-white; wings hyaline, faintly dusky on apical margin; legs clothed above with white pubescence, that beneath except on coxæ, black, middle joints of tarsi fulvous, intermediate pair long and slender, ciliated with long fulvous pubescence, the first and last joints black, the latter ciliated laterally with black hair, posterior legs simple; abdomen with the two basal segments clothed with whitish cinereous pubescence, the two apical segments more or less silvery cinereous, third, fourth, and fifth segments clothed with black pubescence, slightly mixed with pale on apical margin; seventh segment subbidentate at tip. Length .50 inch.

Hab. Colorado (Morrison). Four specimens. This is closely allied to *ursina* Cress., the form of the legs being the same, especially that of the intermediate tarsi.

Anthophora pacifica.

♂.—Black, clothed with a cinereous pubescence, more or less intermixed with black, especially on thorax above; sublanceolate mark on sides of face, clypeus except two spots at base, labrum except two spots at base, and scape beneath pale yellow; wings subhyaline; legs clothed with black pubescence, very long on femora beneath, that on coxæ and trochanters long and white, tips of tibiæ with short white pubescence, the tarsi fringed with long white hair, intermediate tarsi long and very slender, fringed behind with long white hair, intermixed with black on basal joint; abdomen clothed with long cinereous pubescence, not concealing the surface, that on segments 2–5 mostly black, generally intermixed with cinereous on apical margin, but not sufficiently dense to form bands. Length .60 inch.

Hab. California (H. Edwards). One specimen. A very robust species, and easily recognized by the intermediate tarsi being unusually slender and densely ciliated with long white pubescence.

Anthophora Edwardsii.

♀.—Black; head, thorax, legs, and two basal segments of abdomen clothed with cinereous pubescence, intermixed with black on vertex and thorax above; wings hyaline, dusky on apical margin; tibiæ and tarsi within and tip of basal joint of posterior tarsi, with black pubescence; third and fourth segments

of abdomen shining, clothed with a very short black pubescence, the apical margin with a more or less interrupted fringe of whitish hair; extreme sides of abdomen, apex of fifth segment except middle and sides of ventral segments clothed with long white pubescence. Length .50 inch.

♂.—Resembles the ♀; lanceolate mark on sides of face, clypeus except lateral suture, labrum except two spots at base, and scape beneath yellow or yellowish-white; intermediate tarsi long, slender, simple, basal joint of posterior pair with a short, stout tooth on inner edge; abdominal segments 1, 2, and 6 with cinereous pubescence, sometimes that on 3-5, which is generally black, is more or less intermixed with cinereous. Length .50 inch.

Hab. California, Nevada (H. Edwards). Seven specimens.

Anthophora mucedo.

♀.—Black, clothed with an ochreo-cinereous pubescence, very dense on thorax; wings subhyaline, second submarginal cell subquadrate, the first recurrent nervure uniting with the second transverse cubital nervure; the pubescence on basal joint of the tarsi mostly black; the pubescence on base, sides, and apex of abdomen long, that on third, fourth, and fifth segments more or less black, the fifth segment having a fringe of dense ochraceous pubescence at tip; ventral segment fringed with long pale pubescence. Length .55 inch.

Hab. Colorado (Morrison). One specimen. This species resembles *Edwardsii*, but is easily separated by the form of the second submarginal cell which is normal in that species, being subtriangular in shape and receiving the recurrent nervure at about the middle.

Anthophora miserabilis.

♂.—Black; the entire insect clothed with a cinereous pubescence, intermixed with black on vertex and thorax above, that on the abdomen above shorter and thin, not concealing the surface; narrow line on sides of face, hooked beneath, and a large subtrefoil mark on clypeus, yellowish-white; antennæ entirely black; wings hyaline, second submarginal cell narrow, subquadrate, receiving the first recurrent nervure at the tip and very nearly uniting with the second transverse cubital nervure; legs slender and simple. Length .50 inch.

Hab. California (H. Edwards). One specimen.

Anthophora Morrisoni.

♂.—Black; head, thorax, legs, and basal segment of abdomen clothed with a dense ochraceous pubescence, nearly white on cheeks and thorax beneath, that on thorax above sometimes fulvo-ochraceous; sides of face, clypeus except a dot on each side, a transverse line above, and the scape beneath white; wings hyaline, second submarginal cell subquadrate, being slightly narrowed above, and receiving the first recurrent nervure near the tip; legs slender and simple, the pubescence on posterior legs mostly black; abdomen shining black, the first segment clothed with ochraceous pubescence, and the apical segment has a more or less conspicuous silvery pile. Length .50 inch.

Hab. Colorado (Morrison). Four specimens.

Anthophora Crotchii.

♂.—Black; head, thorax, legs, and base of abdomen clothed with a fulvo-ochraceous pubescence; sides of face, clypeus, labrum, mandibles except tips, and scape beneath, yellow; wings hyaline, slightly dusky at tips; intermediate tarsi very long and slender, pale brown, fringed with long pale hair, the apical or claw joint black, and ciliated laterally with long dense black hair, like a feather; abdomen with short black pubescence, except on the two basal segments where it is ochraceous, and longer on the first, apical segment fringed with white pubescence. Length .50 inch.

Hab. California (Crotch). One specimen. The apical joint of intermediate tarsi is more broadly ciliated than any species known to me.

Melissodes caliginosa.

♀.—Black, opaque; head and thorax clothed with a short dense black pubescence; face, clypeus, sometimes a tuft behind ocelli, sometimes the anterior margin of mesothorax, its lateral and posterior margins narrowly and the metathorax more or less, clothed with dense ochraceous pubescence, sometimes that on the thorax is entirely black; mandibles with a fulvous stripe or spot towards tips; wings fuscous, with a violaceous reflection, nervures black, second submarginal cell nearly as long as first, third broadly truncate at tip and narrowed one-half towards marginal; legs clothed with short black or fuscous pubescence, the posterior tibiae with long dense fulvous pubescence, that on basal joint of their tarsi fuscous; abdomen with the three basal segments nude,

the two apical segments clothed with black or fuscous pubescence, sometimes with a mixture of pale on the sides; in one specimen there is an indistinct oblique line of pale pubescence on each side of third segment and a narrow line on lateral apical margin of fourth segment; venter entirely black. Length .60 inch.

♂.—Pubescence of head, thorax above and basal segment of abdomen bright ochraceous; clypeus, labrum, and spot on mandibles, yellow; antennæ as long as head and thorax, black, rufopiceous beneath, third joint about one-third the length of fourth; disk of mesothorax and scutellum above, and pleura at sides and beneath, clothed with black pubescence, a slight mixture of pale pubescence beneath tegulæ; tegulæ dull testaceous; wings pale fuscous; legs clothed with short black pubescence, that on anterior tibiæ and tarsi, and all the coxæ, golden ochraceous, and that on tips of four posterior tibiæ ochraceous, tips of tarsi ferruginous, tibial spurs pale, intermediate tarsi long and rather slender; line at extreme base of second segment and a short oblique line on each side of third segment of short dense ochraceous pubescence, extreme sides of sixth segment with a short acute spine, tip of apical segment golden above; venter shining black, piceous at base. Length .55 inch.

Hab. Georgia (Morrison, Ridings). Ten specimens. The pubescence on mesothorax of ♀ is sometimes entirely black.

Melissodes morosa.

♀.—Black; head clothed with ochraceous pubescence which is mixed with black on vertex and occiput; thorax clothed with a short dense black pubescence, that on prothorax above and a slight admixture on metathorax ochraceous; disk of mesothorax nude, sparsely punctured; wings short, subhyaline, nervures fuscous, second submarginal cell shorter than first, second subtruncate at apex and narrowed nearly two-thirds towards marginal; legs clothed with short black pubescence, the posterior tibiæ and tarsi with long dense yellow pubescence, which on the tarsi within is fuscous; abdomen clothed with black pubescence, that on lateral margin of basal segment ochraceous; narrow basal margin of second segment, a narrow suboblique line on each side a little behind the middle, and broad apical margin of third and fourth segments, covered with a dense appressed ochraceous pile; two apical segments fringed with fuscous pubescence; venter with

black pubescence, apical margin of the segments dull testaceous. Length .50 inch.

Hab. Mexico (Sumichrast). One specimen.

Melissodes montezuma.

♀.—Black, shining; face, clypeus, and labrum with short pale pubescence slightly mixed with black, that on vertex and occiput long and black, and on cheeks long and white; tips of mandibles fulvous; anterior half of mesothorax and the pleura laterally and beneath clothed with dense black pubescence, that on mesothorax posteriorly, scutellum, and metathorax fulvous; tegulæ fulvo-testaceous; wings subhyaline, dusky at tips, nervures black, second submarginal cell small, narrow, about one-third the length of first, the first recurrent nervure uniting with the second transverse cubital nervure, third submarginal broadly rounded at tip and narrowed one-third towards marginal; pubescence of legs entirely black, tips of tarsi ferruginous; abdomen shining, basal segment with a long thin pale fulvous pubescence, and at sides of two apical segments a tuft of whitish pubescence; venter fringed laterally and at apex of segments with pale pubescence. Length .55 inch.

♂.—Labrum whitish; antennæ rather longer than the body, robust, black, flagellum dull fulvous beneath, third joint very short about equal with the second, the fourth twice as long as the three basal joints taken together; the black pubescence on mesothorax anteriorly narrower than in ♀, femora fringed with long whitish pubescence; apex of abdomen silvery sericeous in certain lights, apex bidentate; venter brown. Length .45 inch.

Hab. Mexico (Sumichrast). Four specimens.

Melissodes dubitata.

♀.—Black; head, thorax, legs, and basal segment of abdomen clothed with ochraceous; clypeus confluent punctured, opaque; disk of mesothorax almost nude, sparsely punctured; tegulæ dull testaceous; wings fusco-hyaline, nervures fuscous, second submarginal cell one-half the length of first, third broadly truncate at tip, narrowed nearly two-thirds towards marginal; tips of tarsi dull ferruginous; abdomen shining black, the pale pubescence on basal segment long and thin, apical segments with short black pubescence, that on apex of fifth and sixth segments sometimes fuscous. Length .55-.60 inch.

♂.—Clypeus, labrum, and spot on base of mandibles, yellowish; antennæ as long as head and thorax, fulvous, brown above, the third joint about one-fourth the length of fourth; legs with mixed fuscous and ochraceous pubescence, tarsi with black hair, apical joints ferruginous; base and sides of two basal segments of abdomen and extreme sides of third segment with whitish pubescence, an indistinct oblique line of pale fuscous pubescence on each side of third and fourth segments; sixth segment with an acute tooth on each extreme side. Length .50 inch.

Hab. Georgia (Ridings, Morrison). Nine specimens. The ♀ of this species closely resembles that of *desponsa* Smith, which, however, has the pubescence of thorax beneath and of four anterior legs entirely black.

Melissodes nigrifrons.

♀.—Small, robust, black, clothed with black pubescence, that on occiput, thorax above, and extreme base of abdomen pale ochraceous; antennæ very short, flagellum subtestaceous beneath; a small patch of pale ochraceous pubescence beneath tegulæ, which is piceous; wings hyaline, nervures black; second submarginal cell small, less than half the length of first, receiving the first recurrent nervure very near the apex, third submarginal about three times longer than second, rounded at tip and narrowed one-half towards marginal; pubescence of legs entirely black; abdomen shining, the pubescence, except on basal segment, short and black. Length .40 inch.

Hab. California (Crotch). Three specimens.

Melissodes Edwardsii.

♂.—Black; head, thorax, legs, and base of abdomen clothed with a dense fulvo-ochraceous pubescence, which is paler on sides and beneath; clypeus and labrum yellowish; antennæ reaching beyond first abdominal segment, entirely black, crenulated toward tips, third joint shorter than first; wings hyaline, nervures fuscous, second submarginal cell more than half the length of first, the third broadly truncate at tip and then suddenly narrowed one-half towards marginal; tarsi long and slender, especially the intermediate pair, simple, the basal joint of posterior pair fringed with long pale hair; abdomen shining, basal segment densely clothed with a long ochraceous pubescence, which extends more or less on base and sides of second segment; remaining segments above

clothed with a short black pubescence, longer at sides and at tip; sometimes the fourth and fifth segments have each a narrow, indistinct, subapical fascia of white pubescence; venter clothed with pale pubescence at extreme sides of basal segments. Length .50-.55 inch.

Hab. California (H. Edwards). Six specimens.

Melissodes californica.

♂.—Black; head, thorax, legs, and base of abdomen densely clothed with a pale yellowish-white pubescence; clypeus and labrum yellow; antennæ reaching to tip of first abdominal segment, entirely black, the apical joints subcrenulated, third joint long, attenuated towards base, rather longer than first and second taken together, joints of the flagellum long and flattened and subcarinate laterally; tegulæ dull testaceous; wings hyaline, nervures fuscous, second submarginal cell half the length of first, third shorter than first, subtruncate at tip, and narrowed less than one-half towards marginal; intermediate tibiæ dilated and subdentate beneath, their tarsi long and slender, basal joint long, black, slightly curved, dilated near base beneath and attenuated to tip, and fringed beneath with dense fulvous hair, remaining joints elongate, ferruginous; basal joint of posterior tarsi narrow, flat, black, fringed beneath with short and at tip with long fulvous hair, at the tip within a slender incurved acute tooth, apical joints ferruginous; abdomen shining black, two basal segments clothed with pale yellowish pubescence, long on first segment, remaining segments and venter with short black pubescence, that on apex above more or less fuscous. Length .56 inch.

Hab. California (H. Edwards). One specimen. Closely resembles *Edwardsii*, but easily separated by the longer third joint of antennæ, and differently formed intermediate tibiæ and tarsi.

Melissodes fulvitaris.

♂.—Black; head, thorax, legs, and base of abdomen clothed with a dense whitish pubescence, more or less tinged with ochraceous above; clypeus and labrum pale yellow, shining; antennæ longer than head and thorax, subcrenulated, third joint longer than first, sometimes pale, subclavate; wings hyaline, nervures fuscous, second submarginal cell quadrate, half the length of first, the third as long as first, broadly truncate at tip, and narrowed nearly one-half towards marginal; legs clothed with white pubes-

cence, tarsi fulvous, the basal joint of posterior pair fringed with long yellowish hair; intermediate tibiæ short, dilated and toothed beneath towards base and with a short acute spine at tip above, almost hidden by the dense white pubescence, their tarsi long and slender, the basal joint subfusiform, more strongly narrowed towards tip, which is slightly dilated and produced behind into a prominent, somewhat curved subacute tooth, remaining joints long and slender; abdomen shining at tip, two basal segments with dense ochraceous pubescence, shorter and paler on second segment, remaining segments with black pubescence, interspersed with long scattering pale hair, sixth segment generally with a narrow fringe of whitish pubescence; sometimes segments 3-6 have each an indistinct subapical fascia of cinereous pubescence, more distinct when viewed in certain lights; venter with mixed pale and black pubescence. Length .50 inch.

Hab. Colorado (Morrison). Six specimens. Allied to *californica*, but smaller, and easily separated by the form of the intermediate tarsi.

Melissodes frater.

♂.—Black; head and thorax clothed with a dense cinereous pubescence, more or less tinged with ochraceous above and pale beneath; clypeus and labrum yellow; antennæ three-fourths the length of the body, entirely black, crenulated towards apex, third joint very short, about twice the length of second; wings hyaline, with fuscous nervures, second submarginal cell large, two-thirds the length of first, the third broadly truncate at tip and narrowed more than one-half towards marginal; legs thickly clothed with white pubescence, tarsi fulvous at tips, clothed at base beneath with dense golden hair, the posterior pair fringed with long pale hair, intermediate legs simple, the basal joint of their tarsi long and narrow; abdomen rather shining, with a changeable pale subpruinose pile, first and second segments with a thin pale pubescence, longer on the first, segments 3-6 each with a more or less distinct fascia of whitish pubescence, more dense 5 and 6, sides of apical segments with long pale hair; venter piceous, almost nude. Length .50 inch.

Hab. Colorado (Morrison). Six specimens. This is closely allied to *honesta* Cress., from Texas, which has the abdomen distinctly banded, the labrum black, and the antennæ shorter, with the third joint longer than in the present species.

Melissodes lepida.

♂.—Black; head, thorax, legs, and base of abdomen clothed with an ochraceous pubescence, that on thorax above more or less tinged with fulvous, and very dense; clypeus and labrum pale yellow; antennæ rather longer than head and thorax, entirely black, subcrenulated towards tip and flattened and subcarinate laterally, third joint three times longer than second and less than half the length of fourth; wings hyaline, with pale fuscous nervures, second submarginal cell half the length of first, receiving the recurrent nervure very near the tip, the third broadly subtruncate at tip and narrowed nearly one-half towards marginal; tarsi except base fulvous, intermediate pair long and very slender, the basal joint narrowed to tip, slightly twisted and curved, basal joint of posterior pair fringed with long yellowish hair; abdomen shining, two basal segments clothed with pale yellow pubescence, short and paler on the second, segments 2-6 each with a narrow, even, apical fringe of pale cinereous pubescence, sides of apical segments with a few long whitish hair; venter piceous, almost nude. Length .45 inch.

Hab. Texas (Belfrage); Colorado (Morrison). Three specimens. Also closely allied to *honesta*, but smaller and with differently formed intermediate tarsi.

Melissodes speciosa.

♀.—Large, black; face with a short griseous pubescence, occiput and thorax with a dense fulvo-ochraceous pubescence; clypeus coarsely and confluent punctured; mandibles fulvous near tips; tegulæ testaceous; wings dusky on apical margins, nervures pale fuscous, second submarginal cell three-fourths the length of first, the third broadly rounded at tip and narrowed one-half towards the marginal; legs clothed with fulvo-ochraceous pubescence, paler and sparse on femora, posterior tibiæ and base of tarsi with long dense fulvous hair; basal segment of abdomen clothed with an erect pale ochraceous pubescence, segments 2-4 each with a broad even fascia of dense appressed white or cinereous pile, apical margin of segments 1-3 smooth and shining, that of 5 fringed with pale pubescence tinged with fuscous medially, apical segment with fuscous pubescence, paler laterally; venter piceous, apical margin of the segments rufo-testaceous and fringed with pale fuscous hair, whitish laterally. Length .60-.70 inch.

Hab. Colorado (Ridings, Morrison). Five specimens. A very handsome species, having the abdominal fasciæ broad and distinct.

Melissodes dilecta.

♂.—Black; head, thorax, and base of abdomen clothed with a dense ochraceous pubescence, strongly tinged with yellow above; clypeus and labrum yellowish-white; tips of mandibles pale; antennæ two-thirds the length of body, entirely black, subcrenulated towards tip, third joint about three times the length of second; wings slightly tinged with yellowish, nervures pale fuscous, second submarginal cell quadrate, more than half the length of first, the third broadly truncate at tip and narrowed about one-half towards marginal; legs clothed with pale ochraceous pubescence, dense and fulvous on base of tarsi beneath; intermediate tarsi slender, simple, the basal joint slightly curved, posterior pair fringed with long pale yellowish hair; first segment of abdomen clothed with a long yellow pubescence, remaining segments with a very short cinereous pile, becoming more dense before apex, and forming a more or less distinct white band, and interspersed with longer mixed pale and black scattering hairs; venter brown, the sides of the segments fringed with pale pubescence. Length .45-.50 inch.

Hab. Texas (Belfrage); Colorado (Ridings). Three specimens. This may be the ♂ of *speciosa*.

Melissodes compta.

♀.—Black; head clothed with a dense cinereous pubescence; clypeus finely and confluent punctured; apical half of mandibles fulvous; thorax and basal segment of abdomen with a short dense fulvous pubescence, very dense on thorax, entirely concealing the surface; tegulæ pale fulvous; wings pale fuliginous, with a violaceous reflection, nervures black, second submarginal cell about half the length of first, the third broadly rounded at tip, and narrowed one half towards marginal; legs clothed with dark fulvous pubescence, black on basal joint of anterior tarsi; abdomen with four narrow fasciæ of dense appressed white pubescence, two on second segment, and one each on third and fourth, that on the latter dilated laterally, two apical segments and venter clothed with black pubescence. Length .70 inch.

♂.—Clypeus, labrum, and spot at base of mandibles yellowish-white; antennæ scarcely as long as head and thorax, black, apical joint long, acuminate and acute at tip, three basal joints brownish,

pubescent, the third clavate, about equal in length with the fourth; thorax as in ♀; wings subhyaline, fuliginous and subviolaceous on apical margin; legs clothed with fulvous pubescence, tarsi simple and subrobust; the four white bands on abdomen less distinct, subinterrupted, and sometimes subobsolete; sides of sixth segment with a short acute tooth. Length .55 inch.

Hab. Georgia (Morrison). Three specimens. A very pretty species. The ♂ antennæ are acutely pointed at tip.

Melissodes georgica.

♂.—Black; head, thorax, and base of first segment of abdomen clothed with a short dense ochraceous pubescence; clypeus, labrum, and base of mandibles yellow, the latter fulvous near tips; antennæ as long as head and thorax, third joint twice the length of second, the flagellum dull fulvous beneath; wings tinged with yellowish, the apical margin dusky and subviolaceous, nervures fuscous, second submarginal cell large, three-fourths the length of first, the third rounded at tip and narrowed one-half towards marginal; legs clothed with dull ochraceous pubescence, that on four posterior tibiæ and tarsi fuscous or black, extreme tips of their tibiæ with a tuft of whitish pubescence, tarsi simple, subrobust, tips dull ferruginous; apex of abdomen with rather long black pubescence, the ochraceous pubescence on base of first segment extends narrowly down on the sides of second and third segments; a narrow band at base of second segment and a broader band on third and fourth, slightly oblique laterally and subinterrupted medially of appressed white pubescence; there is a slight indication of an oblique line of pale pubescence on sides of second segment; a short tooth on each side of sixth segment nearly concealed by the pubescence. Length .55 inch.

Hab. Georgia (Morrison). One specimen. This resembles the ♂ of *compar*, but is separated at once by the normal shape of the antennæ and the color of the pubescence on posterior legs.

Melissodes coloradensis.

♀.—Black; head, thorax, and legs clothed with a bright fulvous pubescence, most dense on thorax and long and dense on posterior legs; clypeus finely and confluent punctured; tips of mandibles and flagellum beneath fulvous; disk of mesothorax and scutellum shining, strongly punctured, sparsely clothed with a short black pubescence; tegulæ piceous; wings dusky, fuliginous on apical

margin, nervures fuscous or black, second submarginal cell nearly as long as the first, the third rounded at apex and narrowed two-thirds towards marginal; the pubescence on four anterior tarsi and on posterior pair within is fuscous or black; abdomen shining, extreme base thinly clothed with a yellowish pubescence, extreme base of third segment occasionally with a whitish band, two spots or short lines on sides of second segment, a narrow band near apex of third, slightly interrupted medially and a broad band at tip of fourth segment, of short appressed pale fulvous pubescence; sides of apical segments and ventral segments fringed with yellow pubescence. Length .55 inch.

♂.—Closely resembles the ♀; clypeus, labrum, and spot at base of mandibles, yellow; antennæ rather longer than head and thorax, third joint a little longer than second, flagellum pale fulvous or yellow beneath; the black pubescence on disk of mesothorax and scutellum more dense; third submarginal cell narrowed three-fourths towards marginal; pubescence on legs entirely bright fulvous or yellow, tarsi simple, tips ferruginous; base and sides of first segment of abdomen, sides of second and a short lateral subapical line, a band on third, interrupted medially, and a band on fourth and fifth, all of dense ochraceous pubescence; sixth and seventh segments each with a short tooth on extreme sides; ventral segments fringed with ochraceous or yellow hair. Length .55 inch.

Hab. Colorado (Ridings, Morrison). Ten specimens.

Melissodes petulca.

♀.—Black; head clothed with short dense cinereous pubescence, that on occiput fulvous; clypeus finely punctured; mandibles with a pale spot near base; flagellum dull testaceous beneath; thorax clothed with a short dense ochraceous pubescence, more or less tinged with fulvous above, that on disk of mesothorax and scutellum black; tegulæ dull testaceous; wings subhyaline, tinged with yellowish, nervures pale fuscous, second submarginal cell nearly as long as first, the third broadly rounded at tip and narrowed one-half towards marginal; legs clothed with ochraceous or pale fulvous pubescence, long and dense on posterior tibiæ and tarsi, tips of tarsi ferruginous; base and sides of first segment of abdomen and sides of apical segments clothed with ochraceous pubescence, broad apical margin of segments 2-4 and base of second

narrowly, densely clothed with a short appressed cinereous pile; apical margin of first segment narrowly testaceous; ventral segments fringed with yellow or ochraceous pubescence. Length .50 inch.

Hab. Georgia (Morrison). Three specimens.

Melissodes montana.

♀.—Black; head densely clothed with pale cinereous pubescence, that on occiput mixed ochraceous and black; mandibles fulvous near tips; thorax densely clothed with a long ochraceous pubescence, tinged above with fulvous, that on disk of mesothorax and scutellum short and black; tegulæ piceous; wings hyaline, dusky on apical margin, nervures fuscous, second submarginal cell three-fourths the length of first, the third long, rounded at tip, and narrowed one-half towards marginal; legs clothed with ochraceous pubescence, that on posterior tibiæ and tarsi long and dense, tips of four posterior tibiæ and basal joint of their tarsi and of the posterior pair within clothed with fuscous or black; abdomen with base and sides of two basal segments, and extreme sides of remaining segments, clothed with ochraceous pubescence, segments 2–4 each with a band of dense appressed golden ochraceous pubescence, broadest on 4, and more or less interrupted on 2; apical segments with black or fuscous pubescence; venter piceous, clothed with black pubescence. Length .50 inch.

♂.—Head, thorax, base, and sides of abdomen clothed with pale ochraceous pubescence, that on disk of mesothorax and scutellum black; clypeus, labrum, and spot on base of mandibles pale yellow; antennæ reaching to tip of second abdominal segment, subcrenulated towards tip, third joint a little longer than second, flagellum fulvous beneath; legs simple, clothed with ochraceous pubescence, fulvous on tarsi beneath, the latter pale ferruginous; apical margin of abdominal segments broadly pale testaceous, the apical half of second and nearly the whole of the three following segments covered with a short subappressed ochraceous or yellow pubescence, that on the two apical segments fuscous or black, these two segments have each a short tooth on extreme sides; venter piceous, the apical margin of the segments narrowly fulvo-testaceous. Length .50 inch.

Hab. Colorado (Ridings); New Mexico (Dr. Lewis). Four specimens.

Melissodes suffusa.

♀.—Black; head clothed with cinereous pubescence, that on labrum and occiput ochraceous; anterior margin of clypeus, most of labrum and base of mandibles pale ferruginous, a yellowish line on mandibles near tips; thorax clothed with a short dense ochraceous pubescence, pale on sides and beneath, and tinged with fulvous above, that on disk of mesothorax and scutellum sparse and black; tegulæ pale testaceous; wings hyaline, slightly dusky on apical margin, nervures fuscous, costal nerve ferruginous, neuration as in *montana*; legs clothed with ochraceous pubescence long and dense on posterior tibiæ and tarsi and fulvous within, tips of tarsi ferruginous; base and sides of first abdominal segment clothed with ochraceous pubescence, a white band at base of second segment and a very broad band of short dense appressed cinereous pile on apex of segments 2-4, two apical segments clothed with fulvous pubescence paler laterally, apical margin of first segment narrowly whitish; venter with fulvous pubescence, apical margin of the segments fulvo-testaceous. Length .60 inch.

♂.—Pubescence paler and more dense on head; clypeus, labrum, and base of mandibles yellowish; antennæ rather longer than head and thorax, third joint three times longer than second and about half the length of fourth, flagellum fulvous beneath; wing nervures fulvous; legs simple, clothed with ochraceous pubescence, that on tarsi beneath fulvous; abdomen much as in ♀ except that the band on fourth segment is narrower, and the fifth has a similar band; apex with fulvous pubescence, the sixth segment having a stout acute tooth at extreme sides. Length .45 inch.

Hab. Texas (Belfrage, Heiligbrodt). Four specimens. The cinereous bands on abdominal segments 2-4 of ♀ are very broad, occupying nearly the entire upper surface.

Melissodes fimbriata.

♀.—Black; head and thorax clothed with pale ochraceous or cinereous pubescence, which on disk of mesothorax and scutellum is sparse and mixed with black; mandibles with a yellowish stripe near tips; flagellum subtestaceous beneath; tegulæ piceous; wings fuscous on apical margin, nervures black, second submarginal cell half the length of first, basal nerve very oblique, third submarginal truncate at tip and narrowed one-half towards marginal; legs clothed with fulvous pubescence, long and dense on posterior

pair; abdomen with basal and lateral margins of first segment, extreme basal margin of second, and narrow apical margin of segments 2-4 fringed with whitish pubescence, elsewhere the pubescence is fuscous or black. Length .45 inch.

♂.—Closely resembles the ♀; clypeus and sometimes a spot on labrum yellowish; antennæ two-thirds the length of body, third joint scarcely twice the length of second, flagellum fulvous beneath; pubescence on thorax much longer, disk of mesothorax and scutellum shining and sparsely punctured; pubescence of legs paler, tarsi slender, simple, ferruginous at tips; fifth segment of abdomen fringed at apex with white pubescence similar to that on fourth, two apical segments each with a short acute tooth on extreme sides, sides of venter with long whitish hair. Length .45 inch.

Hab. Texas (Belfrage). Four specimens. This is allied to *rivalis* Cress.

Melissodes agilis.

♂.—Small, black, clothed with a pale ochraceous or cinereous pubescence, dense on thorax; clypeus, labrum, and spot on base of mandibles pale yellow; mandibles dull ferruginous at tips; antennæ nearly as long as the body, fulvous, darker above, three basal joints black, third joint a little larger than second; wings whitish-hyaline, with pale testaceous nervures, second submarginal cell half the length of first, the third rounded at tip and narrowed one-half towards marginal; legs clothed with short cinereous pubescence, tarsi slender, simple, pale ferruginous at tips, tibial spurs white; abdomen thinly clothed with cinereous pubescence, apical margin of the segments rather broadly whitish, and having a narrow band of cinereous pubescence, two apical segments each with a short stout tooth at extreme sides. Length .40 inch.

Hab. Texas (Belfrage). Six specimens. This is much smaller than *menuacha* Cress., which it otherwise closely resembles.

Melissodes communis.

♀.—Black; head and thorax clothed with a short dense cinereous pubescence, very short on clypeus, which is densely punctured; flagellum subtestaceous beneath; disk of mesothorax and scutellum with short sparse black pubescence; disk of metathorax almost nude, the pubescence on sides long; tegulæ piceous; wings

dusky, darker on apical margin, nervures fuscous, second submarginal cell more than half the length of first, the third rounded at tip and narrowed one-half towards the marginal; four anterior legs with mixed fuscous and ochraceous pubescence, posterior tibiæ and tarsi with long dense fulvous pubescence, which is darker within; abdomen shining, base and sides of first segment, with cinereous pubescence; narrow band at extreme base of second segment, another, slightly arcuated, across the middle, a broad band near base of third, and another on apex of fourth, sometimes subinterrupted on posterior middle, composed of short dense appressed whitish pile; apex and venter with black pubescence, that on the sides of the latter generally mixed with white. Length .45 inch.

♂.—Resembles the ♀ in color of pubescence and ornamentation of abdomen; clypeus, labrum, and base of mandibles pale yellowish; antennæ two-thirds the length of body, third joint scarcely twice the length of second, flagellum fulvous beneath; legs clothed with ochraceous pubescence, that on tarsi beneath golden, tarsi simple, pale ferruginous at tips; sometimes the fifth abdominal segment has an indistinct band of pale hairs; two apical segments each with a short lateral tooth; sometimes the apical margin of the segments are more or less testaceous. Length .45 inch.

Hab. Georgia, Illinois. Twenty specimens.

Meissodes confusa.

♀.—Black; head and thorax clothed with a dense pale ochraceous pubescence, slightly mixed with black on vertex, occiput, and thorax beneath; on disk of mesothorax and scutellum the pubescence is sparse and black, the former smooth, polished, sparsely punctured; tegulæ piceous; wings hyaline, slightly dusky on apical margin, nervures fuscous, second submarginal cell three-fourths the length of first, the third rounded at tip and narrowed more than one-half towards marginal; legs clothed with black pubescence, mixed with pale ochraceous at base of four anterior tibiæ and apex of posterior femora, posterior tibiæ and outside of their tarsi clothed with a long dense yellow pubescence; abdomen clothed with short black pubescence, longer on apical segments, basal segment with a long sparse pale pubescence at base, segments 2-4 each with a broad band of short dense appressed pubescence, often interrupted on second and third segments, base of second

sometimes with a narrow band at base; venter with black or fuscous pubescence. Length .45-.50 inch.

♂.—Black; head, thorax, and base of abdomen clothed with a long dense whitish pubescence, more or less tinged above with ochraceous; clypeus yellowish; antennæ nearly as long as the body, entirely black, third joint a little larger than second; pubescence of legs entirely pale ochraceous, tips of tarsi ferruginous, tibial spurs whitish; apical margin of abdominal segments whitish, and having a band of pale pubescence, sixth and seventh segments each with a short tooth on each extreme side, generally concealed by the pubescence; venter piceous, the pubescence sparse and pale, apical margin of the segments narrowly testaceous. Length .40-.43 inch.

Hab. Colorado (Ridings, Morrison). Twelve specimens.

Melissodes perplexa.

♀.—Black, shining; head and thorax clothed with cinereous pubescence, that on anterior margin of occiput, mesothorax except anterior margin and scutellum, erect and black; disk of mesothorax almost nude and sparsely punctured; mandibles with a yellowish stripe near apex; tegulæ piceous; wings hyaline, slightly dusky on apical margin, nervures black, third submarginal cell rounded at apex and narrowed one-half towards marginal; legs with black or fuscous pubescence, posterior tibiæ and outer side of basal joint of their tarsi pale ochraceous; base of first segment and sides of all the segments beneath with cinereous pubescence, a cinereous band on middle of second and third segments, suboblique on the sides and more or less interrupted on second, and a band of same color at apex of fourth segment, sometimes a narrow cinereous band at extreme base of second segment; apical segments above black. Length .40 inch.

♂.—Pubescence longer and more dense than on ♀; clypeus except base white; antennæ nearly as long as the body, third joint scarcely twice longer than second, flagellum fulvous beneath; third submarginal cell narrowed more than two-thirds to marginal; pubescence of legs entirely pale, tarsi slender and simple, tibial spurs pale; abdominal fasciæ much narrower than in ♀ and more or less interrupted, two apical segments each with a stout tooth on extreme sides. Length .35 inch.

Hab. Georgia (Morrison); Texas (Belfrage). Twenty specimens.

Melissodes condigna.

♀.—Robust, shining black; head clothed with short whitish pubescence, very short on clypeus, the disk of which is nude, a line of long black hair behind ocelli; mandibles near tips and flagellum beneath yellowish; prothorax, lateral and posterior margins of mesothorax, metathorax, and large patch beneath wings clothed with griseous or whitish pubescence, elsewhere it is short and black, a slight admixture of pale hair on mesothorax anteriorly; disk of mesothorax and scutellum shining, sparsely punctured and nude; tegulæ piceous; wings tinged with yellowish and with a golden reflection, pale dusky on apical margin, nervures fuscous, second submarginal cell small, scarcely half the length of first, third submarginal as long as first, rounded at apex and narrowed one-half towards marginal; legs clothed with mixed fuscous and pale pubescence, that on posterior tibiæ and tarsi yellow, fulvous within; abdomen shining, finely punctured, subiridescent; base of first segment with a thin pale pubescence; a narrow band at base of second segment dilated on extreme sides, a broad band at base of third, a broad band at apex of fourth, more or less interrupted medially, and a spot on each side of fifth, of short dense appressed cinereous or pale ochraceous pubescence; apical margin of the segments sometimes narrowly pale testaceous; lateral apical margin of ventral segments fringed with whitish hair. Length .55 inch.

Hab. Illinois, Kansas. Two specimens.

Melissodes Stretchii.

♀.—Black; head and thorax clothed with dense griseous pubescence; clypeus nude, densely punctured; labrum with fulvous pubescence; mesothorax very densely and finely punctured, the pubescence short and not very dense, that on pleura long, dense, and pale; tegulæ piceous; wings subhyaline, nervures black, second submarginal cell less than one-half the length of first, the third truncate at tip and narrowed one-half towards marginal; legs clothed with pale ochraceous pubescence, long and dense on posterior tibiæ and tarsi; abdomen nearly nude, a little griseous pubescence at base of first segment, apical margin of segments 2 and 3 narrowly whitish, the base of 2-5, and apex of 5 with a narrow band of appressed pale ochraceous pile, indistinct on base of 2 and 5; apical segment with fulvous pubescence; venter fringed with long pale pubescence. Length .50 inch.

Hab. California (R. H. Stretch). One specimen. A very distinct species.

Melissodes actiosa.

♀.—Black; head and thorax clothed with griseous pubescence, sparse on face and disk of mesothorax, which latter is opaque and impunctured; tegulae rufo-piceous; wings hyaline, nervures fuscous, second submarginal cell small, less than half the length of first, the third truncate at tip and narrowed one-half towards marginal; legs with pale ochraceous pubescence, long and dense on posterior tibiae and tarsi; abdomen with short black pubescence, a few scattered pale hairs on base of first segment, a broad band of appressed cinereous pubescence on apex of segments 2-4, generally interrupted on middle of 2, and a band of pale fulvous pubescence on apex of 5; ventral segments fringed with griseous pubescence. Length .45 inch.

Hab. California (H. Edwards). Three specimens. This has the mesothorax and scutellum opaque and impunctured.

Melissodes donata.

♀.—Small, black; head and thorax clothed with a short, not very dense griseous pubescence, that on vertex, mesothorax, and scutellum more or less black or fuscous; mesothorax opaque, roughly, densely and confluent punctured, the scutellum very densely so; tegulae piceous; wings subhyaline, nervures black, second submarginal half the length of first, receiving the first recurrent nervure at tip, the third submarginal truncate at tip and narrowed two-thirds towards marginal; legs with pale ochraceous pubescence, long and dense on posterior pair; abdomen shining, closely and minutely punctured, base and sides narrowly of first segment with a little cinereous pubescence, base of second narrowly, and apex of segments 2-4 broadly with a dense, appressed, whitish cinereous pile; two apical segments black, the tip of 5 narrowly fuscous; sides of ventral segments fringed with whitish hair. Length .35 inch.

Hab. Mexico (Sumichrast). One specimen.

Melissodes trifasciata.

♀.—Black; head clothed with griseous pubescence, that on vertex black; mandibles tinged with dull ferruginous; thorax with dense ochraceous pubescence; disk of mesothorax, an arcuate band anteriorly extending beneath, and the scutellum with black

pubescence; wings subhyaline, darker on apical margin, nervures fuscous, second submarginal cell obliquely quadrate, half the length of first, third submarginal truncate at tip, narrowed one-half towards marginal; legs with black pubescence, mixed with pale on femora and tibiæ, that on tarsi beneath fulvous, posterior tibiæ and tarsi fulvous clothed with long fulvous pubescence, tip of first joint black; abdomen shining, base of first segment clothed with pale ochraceous pubescence, a narrow band at base of segments 2 and 3, and broad band at apex of 4, of short dense appressed pale ochraceous pile; apex and venter with short black pubescence. Length .40 inch.

Hab. Porto Rico (Krug). One specimen. This may prove to be the ♀ of *mimica* Cress.

Melissodes albilabris.

♂.—Black; head and thorax clothed with a long, dense griseous pubescence, mixed with black on face, vertex and mesothorax anteriorly, and tinged with yellow on sides of scutellum and metathorax; labrum white; antennæ three-fourths the length of the body, third joint a little longer than second, flagellum dull fulvous beneath; tegulæ yellowish; wings tinged with yellow, apical margin dusky, nervures pale fuscous, second submarginal cell less than half the length of first, the third shorter than first and only slightly narrowed towards marginal; legs slender, clothed with pale pubescence, that on outside of posterior tibiæ and tarsi black, tips of tarsi pale ferruginous; apical margin of abdominal segments above broadly pale testaceous, clothed with a very short dense appressed golden pile, base of first segment with a whitish pubescence. Length .40 inch.

Hab. Mexico (Sumichrast). One specimen.

Melissodes otomita.

♂.—Small, black; head and thorax clothed with a dense griseous pubescence, that on occiput, disk of mesothorax and scutellum more or less black; clypeus pale yellow; antennæ as long as head and thorax, third joint about twice the length of second, flagellum beneath except first joint fulvous; tegulæ piceous; wings hyaline, apical margin dusky, nervures pale fuscous, second submarginal large, about equal with first, third rounded at tip and narrowed one-half towards marginal; legs clothed with griseous pubescence; first segment of abdomen clothed with griseous pubescence, seg-

ments 2-5 covered more or less with a dense ochraceous pile, becoming more dense on the apical margin and forming golden-ochraceous bands; apical segments black, the sixth with a blunt tooth on each side. Length .35 inch.

Hab. Mexico (Sumichrast). One specimen.

Melissodes tepida.

♀.—Black; head, thorax, legs, and base of abdomen clothed with a dense pale ochraceous pubescence; mandibles yellowish toward tips; flagellum fulvo-testaceous beneath; posterior tibiæ and tarsi clothed with a long dense pale ochraceous pubescence; wings subhyaline, nervures fuscous, second submarginal cell two-thirds the length of first, the third broadly rounded at tip and narrowed more than one-half towards marginal; segments 2-4 of abdomen covered almost entirely with a short dense pale appressed ochraceous pile; two apical segments black, a patch of pale pubescence on each side of the fifth; venter fringed with pale pubescence. Length .40 inch.

Hab. Nevada (H. Edwards). One specimen.

Melissodes suavis.

♀.—Black; head, thorax, and base of abdomen clothed with a dense pale ochraceous pubescence; clypeus nearly nude, shining; mandibles near tips and flagellum beneath rufo-testaceous; tegulæ pale fulvous; wings hyaline, nervures black, second submarginal cell half the length of first, the third truncate at tip and suddenly narrowed one-half towards marginal; legs clothed with pale pubescence, that on tibiæ and tarsi fulvous, long and dense on posterior pair; a spot on each side of first abdominal segment, and the second to fifth, except narrow apical margins, clothed with a short, dense, appressed white pubescence, that on the fifth tinged with ochraceous, the apical margin of the segments nude, smooth, and polished; venter brown, the segments fringed with pale, the apex with fulvous pubescence. Length .45 inch.

Hab. Colorado (Morrison). One specimen. A very pretty little species, the abdomen appearing white with four narrow shining black bands.

Melissodes lupina.

♂.—Black, clothed with a dense griseous pubescence, tinged with ochraceous on thorax above, and white on face and cheeks; clypeus, labrum more or less, and spot on base of mandibles pale

yellow; antennæ three-fourths the length of the body, third joint a little longer than the second, flagellum pale fulvous beneath; wings hyaline, nervures pale fuscous, second submarginal cell about half the length of first, the third rounded at tip and narrowed one-half to marginal; legs with griseous pubescence, tarsi pale ferruginous at tips; abdomen clothed with a griseous, sometimes ochraceous pubescence, long on basal segment, and forming a more or less indistinct band near apex of remaining segments; apical margin of the segments dull testaceous; sides of two apical segments with a short acute tooth. Length .35 inch.

Hab. California (H. Edwards). Six specimens.

Melissodes Snowii.

♂.—Black, clothed with a dense white pubescence: clypeus, labrum, and spot at base of mandibles yellowish-white; antennæ two-thirds the length of body, second and third joints subequal, flagellum fulvous, the base of joints above black; wings uniformly whitish-hyaline, nervures pale fulvous, second submarginal less than half the length of first, the third broadly rounded at tip, and narrowed one-half towards marginal; tips of tarsi pale ferruginous; apical margin of abdominal segments whitish and having a fascia of dense white pubescence; two apical segments each with a tooth on extreme sides; venter clothed with white pubescence. Length 40 inch.

Hab. Colorado (Prof. F. H. Snow). One specimen. This is larger than *albata* Cress., and with the abdomen distinctly fasciate.

Melissodes tepaneca.

♀.—Black; head clothed with whitish pubescence, that on labrum long and ochraceous, that on occiput fulvous with a line of long erect black hair behind the ocelli; thorax above clothed with a dense fulvous pubescence, that on the sides and beneath ochraceous; tegulæ pale fulvous; wings subhyaline, dusky at apex, nervures fuscous, second submarginal cell half the length of first, the third rounded at tip and narrowed one-half towards marginal; four anterior legs clothed with fuscous pubescence, that on all the femora whitish, that on posterior tibiæ and tarsi yellow, long, and dense; base of first segment and sides of ventral segments with long ochraceous pubescence; a narrow band at base of second segment, a narrow band across the middle, a broad band at base of third, and another at tip of fourth, all of dense

appressed ochraceous pile, that on fifth segment more or less interrupted on posterior middle; apical segment with black pubescence, mixed with ochraceous laterally. Length .45 inch.

♂.—The pubescence longer and more dense, and entirely fulvous or ochraceous except on apical segments of abdomen; clypeus, labrum, and spot on base of mandibles pale yellow; antennæ three-fourths the length of abdomen, third joint a little larger than second, flagellum pale fulvous beneath; legs brownish, clothed with ochraceous pubescence, tarsi pale fulvous; abdomen marked as in ♀, with the pubescence on basal segment fulvous; two apical segments each with a short tooth on extreme sides. Length .40 inch.

Hab. Mexico (Sumichrast). Twelve specimens.

Melissodes aurigenia.

♀.—Black; head, legs, and basal segment of abdomen clothed with ochraceous pubescence, the thorax with dense fulvous pubescence, paler on the sides and beneath; flagellum fulvo-testaceous beneath; wings uniformly hyaline, nervures pale fulvous, second submarginal cell more than half the length of first, the third truncate at tip and narrowed one-half to marginal; posterior tibiæ and tarsi with long fulvous pubescence, that on base of tarsi, at tip and within black; band at base of second abdominal segment, another on the middle, sometimes suffused with that at base, and a broad band at apex of segments 3 and 4, of dense appressed ochraceous pubescence; apical segments black; venter clothed with long fulvo-ochraceous pubescence. Length .45 inch.

♂.—Narrower than ♀ and more densely pubescent; clypeus, labrum, and spot on base of mandibles pale yellow; antennæ two-thirds the length of body, third joint less than twice the length of second, flagellum pale fulvous beneath; legs slender, with ochraceous pubescence, tips of tarsi pale fulvous, tibial spurs white; apical margin of abdominal segments pale testaceous, first segment clothed with a long fulvo-ochraceous pubescence, base of second, and apical margin of segments 2-6 with a broad, more or less indistinct band of ochraceous pubescence; two apical segments each with a stout black tooth on extreme sides. Length .40-.45 inch.

Hab. Can., Me., N. Y., Va., La., Mo., Kan., Col., N. Mex., Utah. Twenty specimens. This may be *pennsylvanica* St. Farg., but it

is impossible to accurately determine from his imperfect description.

Melissodes fulvohirta.

♂.—Black, clothed with a bright fulvo-ochraceous pubescence; clypeus and labrum yellow; antennæ a little longer than head and thorax, entirely black, subcrenulate at tip, third joint nearly three times the length of second; wings subhyaline, fuscous on apical margin, second submarginal cell large, two-thirds the length of first, the third truncate at tip and narrowed nearly one-half to marginal; tips of tarsi pale ferruginous; abdomen shining, the apical margin of the segments above and beneath rufo-testaceous, the second and following segments densely clothed with a short dense bright fulvous pubescence; venter piceous, apical margin of the segments fringed laterally with fulvous pubescence. Length .50 inch.

Hab. Georgia (Morrison). Two specimens.

Melissodes exquisita.

♀.—Black; head and thorax clothed with a dense pale ochraceous pubescence, whitish on cheeks and thorax beneath, and mixed with fuscous on occiput, mesothorax, and scutellum; mandibles yellowish before tips and fringed beneath with long pale hair; pubescence of mesothorax short and sparse on disk; wings fuscous, with a violaceous reflection, nervures black, second submarginal cell more than half the length of first, the third truncate at tip and suddenly narrowed one-half towards marginal; legs with fulvo-ochraceous pubescence, long and dense on posterior tibiæ and tarsi, that on femora pale ochraceous; first segment of abdomen clothed with a long ochraceous pubescence, the remaining segments covered with a dense appressed golden-fulvous pubescence; ventral segments fringed at apex with a long dense fulvo-ochraceous pubescence. Length .60 inch.

Hab. Mexico (Sumichrast). One specimen. A very distinct and beautiful species.

Melissodes strenua.

♀.—Black; face and cheeks clothed with griseous pubescence, vertex, occiput, and thorax with dense fulvo-ochraceous pubescence; large, transverse mark on apex of clypeus, labrum, and spot on base of mandibles yellowish; flagellum fulvo-testaceous beneath; tegulæ pale fulvous; wings fusco-hyaline, tinged with

yellowish, nervures fuscous, second submarginal cell more than half the length of first, the third subtruncate at tip and narrowed nearly one-half towards marginal; legs with fusco-ferruginous pubescence, paler on anterior pair; abdomen smooth and shining, very finely punctured, base and sides of first segment clothed with ochraceous pubescence, base and sides of second, sides of third and the fourth almost entirely covered with a very short dense appressed cinereous pile; two apical segments and venter clothed with a fulvous pubescence. Length .65 inch.

♂.—Very much like the ♀, but with narrower abdomen, clearer wings, and fulvo-ferruginous legs; clypeus except base, labrum, and spot on base of mandibles pale yellow; flagellum pale fulvous beneath; abdomen more or less incurved at tip, first segment except apex clothed with fulvous pubescence; base of second and a short line on each side near apex, base and apex of third and fourth, and the two following segments entirely, covered with a fine dense appressed ochraceous pile; sixth segment with a short tooth on each side; apical segment narrowed and truncate at tip. Length .60 inch.

Hab. Georgia, Texas, New Mexico. This fine species is allied to *pruinosa* Say, but is much larger, and the abdomen not so distinctly banded.

Melissodes australis.

♀.—Black, shining; head and thorax clothed with a short dense cinereous pubescence, that on thorax above tinged with ochraceous; clypeus, vertex, and disk of mesothorax smooth and nude; tegulae fulvo-testaceous; wings hyaline, faintly dusky on apical margin, nervures fuscous, marginal cell long and pointed at tip, second submarginal small, oblong quadrate, not narrowed above, less than one-third the length of first, the third as long as first, rounded at tip and narrowed one-half towards marginal; legs clothed with whitish pubescence, that on tarsi ochraceous, posterior tibiae and base of tarsi with long dense ochraceous pubescence, tips of tarsi pale ferruginous; abdomen covered with an appressed ochraceous pubescence, thin and pale at base, and tinged with fulvous on apical segments, and much more dense, forming narrow bands, on apical margin of the segments; last segment fringed with fulvous pubescence; sides of venter with ochraceous pubescence. Length .45-.50 inch.

♂.—The pubescence paler and more dense than ♀, especially on the abdomen which is narrower and more convex; tip of clypeus and vertex nude, smooth, and shining, labrum densely pubescent; antennæ short as in ♀; four posterior legs robust, the femora and tibiæ incrassate, the tarsi slender and fringed with long pale pubescence, basal joint of posterior tarsi long and curved, and having at apex beneath a prominent curved, subacute tooth, which is flattened and dilated at base; abdomen densely clothed with a short erect pubescence, generally cinereous, sometimes tinged with ochraceous, especially at tip, that on apical margin of the segments narrowly white; apical segment bidentate. Length .45-.50 inch.

Hab. Colorado (Ridings, Morrison); Texas (Belfrage). Eighteen specimens. This is closely allied to *enavata* Cress., which, however, has the pubescence darker, the wings more dusky and subviolaceous at tips, and the second submarginal cell narrowed above. The ♂ closely resembles *ursina* Cress. (which is probably the ♂ of *enavata*), but is easily distinguished by the conspicuous toothed process at tip of basal joint of posterior tarsi, not seen in *ursina*.

This and the remaining species described under *Melissodes*, seem intermediate between that genus and *Anthophora*, the ♂ antennæ, except in *pinguis*, being little or no longer than those of the ♀. The neururation of anterior wings resembles that of *Melissodes*, with the marginal cell long and pointed at tip, and not shortened and broadly rounded as in *Anthophora*.

Melissodes diminuta.

♂.—Small, black, clothed with a short dense ochraceo-cinereous pubescence, vertex and disk of thorax smooth and polished; antennæ about as long as the head is broad, entirely black; tegulæ piceous; wings hyaline, nervures fuscous, second submarginal cell half the length of first, narrowed above, the third as long as first, rounded at tip and narrowed more than one-half towards marginal; four anterior tibiæ and tarsi robust, tarsi long, slender, simple, the basal joint of posterior pair curved; abdomen densely pubescent, that on apical margin of segments paler, apical segment bispinose. Length .32 inch.

Hab. Colorado (Morrison). Two specimens. This is a miniature of *ursina*.

Melissodes olivacea.

♀.—Small, robust, black; head clothed with griseous pubescence, tinged with greenish-ochraceous on occiput; mandibles pale yellowish at base; flagellum fulvo-testaceous beneath; thorax clothed with a short dense pale ochraceous pubescence, tinged with greenish-yellow above, longer and pale beneath; tegulæ fulvo-testaceous; wings subhyaline, tinged with yellowish, nervures fuscous, second submarginal cell more than half the length of first, narrowed above, the third longer than first, rounded at tip and narrowed nearly two-thirds towards marginal; legs brown, clothed with pale ochraceous pubescence, long on posterior pair; abdomen broad ovate, depressed, clothed with a short dense appressed greenish-yellow pubescence, more dense on apical margin of the segments, that on base of first segment longer, pale and suberect, extreme apex of abdomen fuscous. Length .35 inch.

♂.—Form narrower, the pubescence more dense, especially on face and thorax above; clypeus and mandibles dull yellow; antennæ short, but little longer than those of ♀; pubescence of thorax and abdomen brighter in color than in ♀; legs much paler, the two anterior pairs pale testaceous in front, anterior pair short, slender, fringed with long pale pubescence, the two posterior pairs long, subrobust, tarsi long, pale, fringed with long whitish pubescence, the basal joint long, slender, curved, clothed within with yellowish pubescence. Length .30 inch.

Hab. Mexico (Sumichrast). Twelve specimens.

Melissodes pinguis.

♀.—Form short, robust, black; head thinly clothed with a short griseous pubescence, mixed with black on vertex; clypeus deeply punctured; mesothorax and scutellum shining, strongly punctured, clothed with a short black pubescence, that on the metathorax and pleura laterally and beneath griseous; tegulæ piceous; wings subhyaline, dusky on apical margin, second submarginal cell subquadrate, nearly as long as the first, the third as long as first, rounded at tip, and narrowed one-half towards marginal; four anterior legs clothed with fuscous pubescence, that on femora thin and pale, posterior tibiæ and tarsi with long fulvo-ochraceous pubescence; abdomen broad, ovate subdepressed; first segment except sides and middle of second smooth, black, shining; the remainder covered with a short dense appressed golden-yellow

pile; ventral segments fringed with fulvous pubescence. Length .35 inch.

♂.—Form narrower, more convex, the pubescence more dense; clypeus, labrum, and spot at base of mandibles yellowish-white; antennæ as long as head and thorax, the flagellum dull testaceous beneath; pubescence of thorax above longer; wings darker, the third submarginal narrowed nearly three-fourths towards marginal; legs slender, simple, clothed with griseous pubescence; base of abdomen with whitish pubescence, the two apical segments each with a short tooth on extreme sides. Length .30 inch.

Hab. Mexico (Sumichrast). Six specimens.

Melissodes afficta.

♀.—Black, shining, clothed with a short griseous pubescence; clypeus, vertex, most of thorax above and scutellum nude, smooth, and shining; tegulæ pale brown; wings tinged with fuscous, nervures black or fuscous, second submarginal cell about half the length of first, narrowed above, the third subtruncate at tip and narrowed one-half towards marginal; legs with pale ochraceous pubescence, long on posterior pair, that at tip of posterior tibiæ and on tarsi fuscous or black; abdomen depressed, shining, first segment clothed with griseous pubescence, apical margin of segments 2-5 with a narrow band of dense appressed white pubescence, apex tinged with fuscous; ventral segments fringed at apex with fuscous pubescence, pale on the sides. Length .40 inch.

♂.—Much more densely pubescent than ♀, that on thorax above much darker; antennæ short as in ♀; posterior legs incrassate, the tarsi long, first joint curved, with the tip prolonged within; first and second segments of abdomen and venter clothed with a short dense griseous pubescence, that on the remaining segments black or fuscous, apical margin of segments 2-5 and sometimes 6, fringed with whitish pubescence; apical segment bidentate at tip. Length .30-.35 inch.

Hab. Texas (Belfrage, Heiligbrodt) Seven specimens.

Melissodes apacha.

♀.—Black; head and thorax rather densely clothed with a griseous pubescence, more or less ochraceous or fulvo-ochraceous on thorax above; apex of clypeus, vertex, and disk of mesothorax smooth and shining; tegulæ pale piceous; wings hyaline, nervures fuscous, second submarginal cell about half the length of first,

nearly quadrate, very slightly narrowed above, the third larger than first, truncate at tip and narrowed one-half towards marginal; legs with ochraceous or pale ochraceous pubescence, long and dense on posterior pair, that on base of posterior tarsi within fuscous or black; abdomen covered with a short appressed whitish or cinereous pubescence, not entirely concealing the surface, that on extreme apical margin of the segments dense and forming narrow bands, apex of fifth segment and the sixth more or less fuscous. Length .30-.35 inch.

Hab. Texas, New Mexico, Arizona. Six specimens.

Melissodes Sumichrasti.

♀.—Black; head clothed with short cinereous pubescence, that on vertex and occiput longer and mixed with fuscous; thorax above with a short dense bright fulvo-ferruginous pubescence, that on the sides and beneath cinereous; tegulæ fulvo-testaceous; wings subhyaline, tinged with yellow, nervures fuscous, second submarginal cell about half the length of first, subtriangular, being narrowed above, the third shorter than first and only slightly narrowed towards marginal; legs with pale pubescence, that on tarsi fuscous; abdomen with very short fuscous pubescence, that on first segment pale, segments 1-4 each with an apical band of dense appressed pale ochraceous pile; ventral segments fringed with pale pubescence. Length .35-.40 inch.

♂.—Pubescence of thorax much paler than on ♀; four posterior legs incrassate, the tarsi long and slender, and ferruginous at tips; pubescence of abdomen pale ochraceous, the bands on all the segments narrow. Length .40 inch.

Hab. Mexico (Sumichrast). Fifteen specimens.

Melissodes bituberculata.

♂.—Black; head, thorax, legs, and base of abdomen thickly clothed with a dense long whitish pubescence, more or less tinged with ochraceous on head and thorax above; tip of clypeus and vertex smooth and shining; tegulæ rufo-piceous; wings pale fuscohyaline, nervures black, second submarginal cell about half the length of first, slightly narrowed above, the third rather longer than first, truncate at tip and narrowed one-half towards marginal; the pubescence of legs long and silky-white, on outer side of four posterior tibiae it is short appressed and pale fuscous; posterior legs incrassate, basal joint of their tarsi curved, the tip beneath flattened

and prolonged; abdomen shining, clothed with pale pubescence, that on middle of segments 3-6 mixed with fuscous, apical margin of 2-6 each with a narrow fascia of short dense white pubescence, sides of apex and venter with white pubescence, apex prominently bituberculate. Length .45-.50 inch.

Hab. California (Crotch). Three specimens.

Melissodes toluca.

♀.—Black; face and occiput clothed with ochraceous pubescence, sometimes more or less fulvous, that on cheeks whitish; mandibles with a white spot at base; thorax with a whitish pubescence behind, laterally, and beneath; mesothorax densely punctured, opaque, with a very short, sparse fuscous pubescence, longer and more dense on sides of scutellum; tegulæ piceous; wings hyaline, nervures black, second submarginal cell about one-third the length of first, subtriangular, the third nearly as long as first, subtruncate at tip and narrowed one-half towards marginal; legs piceous or black, thinly clothed with pale pubescence, posterior tibiæ and tarsi with a long, loose floccus of blackish-plumose pubescence, more or less mixed with cinereous beneath; abdomen shining, black, basal segment with a little pale pubescence at base, apical margin of segments 1-4 with a narrow fascia of white or yellowish-white pubescence, more or less interrupted on 1 and 2 medially. Length .28-.32 inch.

♂.—Resembles the ♀, but with the pubescence of head and thorax more dense; mandibles with a white spot at base; legs with pale pubescence, posterior femora and tibiæ very robust, inner side of their tibiæ flat with a short tooth on inner margin towards the tip, and basal joint of their tarsi with a small tooth on inside towards the base; abdomen with a narrow line of white pubescence at apex of all the segments except the last, which is pointed and whitish. Length .25 inch.

Hab. Mexico (Sumichrast). Six specimens. This is allied to *fulvifrons* Smith, but is much smaller and otherwise very different.

Melissodes bombiformis.

♀.—Black; head and thorax clothed with short ochraceous or fulvo-ochraceous pubescence, sparse on face; vertex shining; clypeus sparsely punctured, nude on the disk; pubescence of thorax very dense; tegulæ fulvo-testaceous; wings fuscous, paler

on apical margin, nervures black, second submarginal cell about two-thirds the length of first, narrowed above, the third shorter than first, rounded at tip and narrowed nearly one-half towards marginal; legs piceous, the pubescence black, mixed with pale on anterior pair, that on posterior legs long; abdomen opaque, with very short black or fuscous pubescence, that on first segment sometimes mixed with ochraceous. Length .55-.70 inch.

♂.—Closely resembles the ♀; clypeus and labrum with short dense ochraceous pubescence; antennæ short as in ♀; legs robust, especially the posterior pair, the pubescence very short, black, ochraceous on coxæ, trochanters and anterior femora beneath, four posterior tarsi long, the basal joint of posterior pair long and curved; basal segment of abdomen clothed with short dense ochraceous pubescence, that on venter with black or fuscous. Length .60 inch.

Hab. Virginia, Georgia, Kansas. Six specimens. This has much the appearance of certain species of *Bombus*.

Tetralonia Gabbii.

♀.—Large, black, clothed with black pubescence, that on labrum fuscous; mandibles with a yellowish line; wings fusco-hyaline, darker at base, nervures black; pubescence of legs entirely black; abdomen above except first segment covered with a short very dense ochraceous pubescence, that on first segment long and black. Length .85 inch.

♂.—Clypeus and base of mandibles yellow; antennæ short as in ♀; apical segment of abdomen flattened and quadrate above, the sides carinate and the apical margin truncate; venter smooth and polished, piceous. Length .85 inch.

Hab. Costa Rica (W. M. Gabb). Five specimens.

Tetralonia apiculata.

♀.—Black; head clothed with ochraceous pubescence, mixed with black on occiput; thorax clothed with black pubescence, that on mesothorax anteriorly and laterally mixed with ochraceous; wings subhyaline, nervures black; pubescence of legs entirely black; two basal segments of abdomen black, shining, the first with a little black pubescence at base, remaining segments covered with a short dense bright fulvous pile; ventral segments fringed with fulvous pubescence. Length .55 inch.

Hab. Costa Rica (Gabb). One specimen.

Megacilissa mexicana.

♀.—Black; head clothed with a griseous pubescence, that on face and vertex intermixed with fuscous; flagellum dull testaceous beneath; thorax above clothed with a short dense fulvous pubescence, that on the sides and beneath pale ochraceous intermixed with fuscous; tegulæ pale fulvous; wings yellowish hyaline, dusky on apical margin, second submarginal cell small, narrow, nearly pointed towards marginal; legs clothed with fuscous pubescence, that on posterior femora and tibiæ beneath dense and ochraceous, basal joint of posterior tarsi short and broad; abdomen with a greenish-blue reflection, strongly pale sericeous, first segment clothed with a short fulvous pubescence, that on extreme sides of remaining segments long and golden-ochraceous, that on the two apical segments long and fuscous, intermixed with ochraceous; venter piceous, fulvo-testaceous at base of the segments, which are fringed at apex with a long pale fulvous pubescence. Length .75 inch.

Hab. Mexico (Sumichrast). One specimen.

Megacilissa electa.

♂.—Black; head and thorax clothed with a short dense fulvous pubescence, paler laterally and beneath; wings pale yellowish hyaline, dusky on apical margin, second submarginal cell about one-third the length of first and narrowed nearly one-half towards the marginal; legs long and slender, clothed with ochraceous pubescence, tibiæ and tarsi pale fulvous; abdomen clothed with a short black pubescence, longer on apical segments, that on first segment above and two basal segments beneath, ochraceous, extreme sides of second dorsal segment fringed with pale ochraceous pubescence. Length .75 inch.

Hab. Georgia (Morrison). One specimen.